REGULATION III - CONTROL OF AIR CONTAMINANTS

RULE 370
FEDERAL HAZARDOUS AIR POLLUTANT PROGRAM

INDEX

SECTION 500 - MONITORING AND RECORDS (NOT INCLUDED)

Revised 07/13/88
Revised 04/06/92
Repealed and Adopted 11/15/93
Revised 11/20/96
Revised 05/14/97
Revised 05/20/98
Revised 08/19/98
Revised 03/01/00
Revised 03/07/01

MARICOPA COUNTY
AIR POLLUTION CONTROL REGULATIONS

REGULATION III - CONTROL OF AIR CONTAMINANTS

RULE 370
FEDERAL HAZARDOUS AIR POLLUTANT PROGRAM

SECTION 100 - GENERAL

101 PURPOSE: To establish emission standards for federally listed hazardous air pollutants.

102 APPLICABILITY: The provisions of this rule apply to the owner or operator of any stationary source for which a standard is prescribed under this rule, and for which federal delegation of the implementation and enforcement of the standards to Maricopa County has been accomplished. Any such stationary source must also comply with other Maricopa County Air Pollution Control Regulations.

103 AVAILABILITY OF INFORMATION: Copies of all 40 CFR, Part 61 and Part 63 revisions currently enforced by Maricopa County are available at 1001 N. Central Avenue, Phoenix, Arizona, 85004, or by calling (602) 506-6700 for information.

104 FEDERAL DELEGATION AUTHORITY: Maricopa County shall enforce the national emission standards for hazardous air pollutants (40 CFR Part 61 and Part 63 (1998)) (NESHAPs) listed in Section 300 of this rule which have heretofore been delegated to the County by the United States Environmental Protection Agency (EPA) for such enforcement. Maricopa County may in addition enforce such other NESHAPs as may be delegated by the EPA to the County from time to time.

SECTION 200 - DEFINITIONS: For the purpose of this rule, the following definitions shall apply:

201 EXISTING SOURCE - Any stationary source other than a new source.

202 FEDERALLY LISTED HAZARDOUS AIR POLLUTANT - Any air pollutant listed pursuant to Section 112(b) of the Act.

203 HAZARDOUS AIR POLLUTANT - Any air pollutant regulated under Section 112 of the Act, any air pollutant subject to NESHAP, or any air pollutant designated by the Director as a hazardous air pollutant pursuant to ARS §49-426.04.

204 MAJOR SOURCE - A stationary source or group of stationary sources located within a contiguous area, and under common control, and that emits or has the potential to emit considering controls, in the aggregate, 10 tons per year or more of any federally listed hazardous air pollutant or 25 tons per year or more of any combination of federally listed hazardous air pollutants. A lesser quantity or, in the case of radionuclides, a different criteria may be established by the Administrator pursuant to Section 112 of the Act and may be adopted by the Board of Supervisors by rule.

205 MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY (MACT) - An emission standard that requires the maximum degree of reduction in emissions of federally listed hazardous air pollutants subject to this rule, including a prohibition on such emissions where achievable, that the Control Officer, after considering the cost of achieving such emission reduction and any non-air quality health and environmental impacts and energy requirements, determines is achievable by a source to which such standard applies, through application of measures, processes, methods, systems or techniques, including measures which do one or more of the following:

205.1 Reduce the volume of, or eliminate emissions of, such pollutants through process changes, substitution of materials or other modifications.

205.2 Enclose systems or processes to eliminate emissions.

205.3 Collect, capture or treat such pollutants when released from a process, stack, storage or fugitive emissions point.

205.4 Are design, equipment, work practice, or operational standards, including requirements for operator training or certification.

205.5 Are a combination of the above.

206 MODIFICATION - Any physical change in, or change in the method of operation of, a major source which increases the actual emissions of any federally listed hazardous air pollutant emitted by such source by more than a de minimis amount, or which results in the emission of any federally listed hazardous air pollutant, not previously emitted by more than a de minimis amount.

207 NESHAP - National emission standards for hazardous air pollutants pursuant to 40 CFR Part 61 and Part 63 (1998).

208 NEW SOURCE - A stationary source, the construction or reconstruction of which commences after the Administrator first proposes regulations under Section 112 of the Act establishing an emission standard applicable to such source, and after an applicable rule is adopted by the Board of Supervisors.

209 STATIONARY SOURCE - Any building, structure, facility, or installation which emits or may emit any air pollutant.

SECTION 300 - STANDARDS

301 STANDARDS OF PERFORMANCE FOR FEDERALLY LISTED HAZARDOUS AIR POLLUTANTS: The federally listed hazardous air pollutants as listed in Table I and NESHAPs adopted as of July 1, 1999, as listed below and as which can be found at 40 CFR 61.01 through 61.358, and all accompanying appendices, are incorporated herein by reference with the listed exclusions and additions and shall be applied by the Control Officer. This incorporation by reference includes no future editions or amendments. Each owner or operator subject to the requirements of the following subparts shall comply with the requirements of those subparts and the additional requirements set forth herein.

301.1 SUBPART A - General Provisions; exclude Sections 61.04(b), 61.06, 61.12(d)(1), 61.13(h)(1)(ii), 61.14, 61.15 and any sections dealing with equivalency determinations that are nontransferable through Section 112(e)(3) of the Act.

301.2 SUBPART C - National Emission Standard for Beryllium.

301.3 SUBPART D - National Emission Standard for Beryllium Rocket Motor Firing.

301.4 SUBPART E - National Emission Standard for Mercury; exclude 61.53(c)(4) and 61.55(d).

301.5 SUBPART F - National Emission Standard for Vinyl Chloride; exclude 61.66.

301.6 SUBPART J - National Emission Standard for Benzene Fugitive Emissions Sources/Equipment Leaks; exclude 61.112(c).

301.7 SUBPART L - National Emission Standard for Benzene Emissions from Coke By-Product Recovery Plants; exclude 61.136(d).

301.8 SUBPART M - National Emission Standard for Asbestos; exclude 61.149(c)(2), 61.150(a)(4), 61.151(c)(2), 61.152(b)(3), 61.153(c), 61.154(b)(2), 61.154(d), 61.155(a), and 61.156(d).

a. Each owner or operator of a demolition activity or renovation activity involving a facility as defined in 40 CFR 61, Subpart M shall:

(1) Fully comply with all requirements of 40 CFR 61, Subpart M.

(2) Provide the Control Officer with written notification in the manner described in 40 CFR 61.145 of intention to demolish or to renovate.

(3) Inspect the facility within 12 months of commencement of demolition or renovation activity.

(4) Pay all applicable fees prescribed by Rule 280 of these rules.

b. In addition, each owner or operator of a demolition activity or renovation activity shall comply with the following requirements:

(1) Certification, training, and record keeping requirements:

(a) All facilities scheduled for demolition or renovation shall be inspected by a currently certified Asbestos Hazard Emergency Response Act (AHERA) accredited asbestos building inspector (herein referenced as inspector), as required by either AHERA or the Asbestos School Hazard Abatement Reauthorization Act (ASHARA).

(b) Each owner and operator of a facility shall maintain a copy of any reports of inspections made for a facility for two years, including laboratory test results of samples collected, and shall submit a statement to the Control Officer verifying that the facility was inspected and verifying whether or not asbestos containing material (ACM) was found.

(c) All asbestos workers shall be AHERA trained, and an AHERA/ASHARA trained asbestos contractor/supervisor shall be on-site at all times during active asbestos abatement work.

(2) Asbestos renovation and demolition standards:

(a) Category I nonfriable ACM and Category II nonfriable ACM that remain nonfriable Category I ACM and nonfriable Category II ACM shall be removed so as not to create visible dust emissions during removal and transport to the disposal site.

(b) Inspection viewing devices at facilities are required at all asbestos renovation and abatement projects where regulated ACM is being abated, except for roofing projects involving Category I nonfriable ACM and Category II nonfriable ACM exclusively. Viewing devices shall be so designed as to allow an inspector to view the facility from the outside, either through ports or by video monitoring.

(c) The friable portion of regulated ACM shall be kept adequately wet and contained in transparent, leak-tight wrapping or 6-mil poly bags to prevent dust emissions during removal, transport, storage, and proper landfill disposal following local, county, state, and federal

regulations. Each wrapping or bag shall be labeled with the name and address of the location that generated the ACM.

301.9 SUBPART N - National Emission Standard for Inorganic Arsenic Emissions from Glass Manufacturing Plants; exclude 61.164(a)(2) and 61.164(a)(3).

301.10 SUBPART O - National Emission Standard for Inorganic Arsenic Emissions from Primary Copper Smelters; exclude 61.172(b)(2)(ii)(B), 61.172(b)(2)(ii)(C), 61.174(a)(2), and 61.174(a)(3).

301.11 SUBPART P - National Emission Standard for Inorganic Arsenic Emissions from Arsenic Trioxide and Metallic Arsenic Production Facilities.

301.12 SUBPART V - National Emission Standard for Volatile Hazardous Air Pollutants - Fugitive Emissions/Equipment Leaks; exclude 61.242-1(c)(2) and 61.244.

301.13 SUBPART Y - National Emission Standard for Benzene Storage Vessels; exclude 61.273.

301.14 SUBPART BB - National Emission Standard for Benzene Transfer Operations.

301.15 Subpart FF - National Emission Standards for Benzene Waste Operations; exclude 61.353.

302 STANDARDS OF PERFORMANCE FOR FEDERALLY LISTED HAZARDOUS AIR POLLUTANTS FOR SOURCE CATEGORIES: The federally listed hazardous air pollutants as listed in Table I and NESHAPs adopted as of July 1, 1999, as listed below and as which can be found at 40 CFR 63, and all accompanying appendices, are incorporated herein by reference with the listed exclusions and additions and shall be applied by the Control Officer. This incorporation by reference includes no future editions or amendments. Each owner or operator subject to the requirements of the following subparts shall comply with the requirements of those subparts and the additional requirements set forth herein.

302.1 SUBPART A - General Provisions.

302.2 SUBPART B - Requirements for Control Technology Determinations for Major Sources in Accordance with Clean Air Act Sections 112(g) and 112(j).

302.3 SUBPART D - Regulations Governing Compliance Extensions for Early Reductions of Hazardous Air Pollutants

302.4 SUBPART F - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry.

302.5 SUBPART G - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater.

302.6 SUBPART H - National Emission Standards for Organic Hazardous Air Pollutants for Equipment Leaks; exclude 63.177.

302.7 SUBPART I - National Emission Standards for Organic Hazardous Air Pollutants for Certain Processes Subject to the Negotiated Regulation for Equipment Leaks.

302.8 SUBPART L - National Emission Standards for Coke Oven Batteries; exclude 63.302(d); 63.304(b)(6); 63.305(b), (d), and (e); 63.307(d).

302.9 SUBPART M - National Emission Standards for Perchloroethylene for Dry Cleaning Facilities.

302.10 SUBPART N - National Emission Standards for Chromium Emissions From Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks.

302.11 SUBPART O - National Emission Standards for Ethylene Oxide for Sterilization Facilities.

302.12 SUBPART Q - National Emission Standards for Hazardous Air Pollutants for Industrial Process Cooling Towers.

302.13 SUBPART R - National Emission Standards for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations); exclude 63.426, 63.427(a)(5).

302.14 SUBPART S – National Emission Standards for Hazardous Air Pollutants from the Pulp and Paper Industry

302.15 SUBPART T - National Emission Standards for Halogenated Solvent Cleaning.

302.16 SUBPART U - National Emission Standards for Hazardous Air Pollutant Emissions: Group I Polymers and Resins

302.17 SUBPART W - National Emission Standards for Hazardous Air Pollutants for Epoxy Resins Production and Non-Nylon Polyamides Production.

302.18 SUBPART X - National Emission Standards for Hazardous Air Pollutants from Secondary Lead Smelting.

302.19 SUBPART AA – National Emission Standards for Hazardous Air Pollutants from Phosphoric Acid Manufacturing Plants.

302.20 SUBPART BB - National Emission Standards for Hazardous Air Pollutants from Phosphate Fertilizers Production Plants.

302.21 SUBPART CC - National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries.

302.22 SUBPART DD - National Emission Standards for Hazardous Air Pollutants from Off-Site Waste and Recovery Operations

302.23 SUBPART EE - National Emission Standards for Magnetic Tape Manufacturing Operations.

302.24 SUBPART GG - National Emission Standards for Aerospace Manufacturing and Rework Facilities.

302.25 SUBPART HH - National Emission Standards for Hazardous Air Pollutants from Oil and Natural Gas Production Facilities.

302.26 SUBPART JJ - National Emission Standards for Wood Furniture Manufacturing Operations.

302.27 SUBPART KK - National Emission Standards for the Printing and Publishing Industry; exclude 63.827(b), 63.827(c)

302.28 SUBPART OO - National Emission Standards for Tanks - Level 1

302.29 SUBPART PP - National Emission Standards for Containers

302.30 SUBPART QQ - National Emission Standards for Surface Impoundments

302.31 SUBPART RR - National Emission Standards for Individual Drain Systems

302.32 SUBPART SS – National Emission Standards for Closed Vent Systems, Control Devices, Recovery Devices and Routing to a Fuel Gas System or Process.

302.33 SUBPART TT – National Emission Standards for Equipment Leaks – Control Level 1.

302.34 SUBPART UU – National Emission Standards for Equipment Leaks – Control Level 2 Standards.

302.35 SUBPART VV - National Emission Standards for Oil-Water Separators and Organic-Water Separators

302.35 SUBPART WW – National Emission Standards for Storage Vessels (Tanks) – Control Level 2.

302.36 SUBPART YY - National Emission Standards for Hazardous Air Pollutants for Source Categories: Generic Maximum Achievable Control Technology Standards.

302.37 SUBPART CCC - National Emission Standards for Hazardous Air Pollutants for Steel Pickling – HCl Process Facilities and Hydrochloric Acid Regeneration Plants.

302.38 SUBPART DDD - National Emission Standards for Hazardous Air Pollutants for Mineral Wool Production.

302.39 SUBPART EEE - National Emission Standards for Hazardous Air Pollutants from Hazardous Waste Combustors.

302.40 SUBPART GGG - National Emission Standards for Pharmaceuticals Production.

302.41 SUBPART HHH - National Emission Standards for Hazardous Air Pollutants from Natural Gas Transmission and Storage Facilities.

302.42 SUBPART III - National Emission Standards for Hazardous Air Pollutants for Flexible Polyurethane Foam Production.

302.43 SUBPART JJJ - National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins

302.44 SUBPART LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.

302.45 SUBPART MMM - National Emission Standards for Hazardous Air Pollutants for Pesticide Active Ingredient Production.

302.46 SUBPART NNN - National Emission Standards for Hazardous Air Pollutants for Wool Fiberglass Manufacturing.

302.47 SUBPART PPP - National Emission Standards for Hazardous Air Pollutant Emissions for Polyether Polyols Production.

302.48 SUBPART TTT - National Emission Standards for Hazardous Air Pollutants for Primary Lead Smelting.

302.49 SUBPART XXX - National Emission Standards for Hazardous Air Pollutants for Ferroalloys Production: Ferromanganese and Silicomanganese.

303 ADDITIONAL REQUIREMENTS:

303.1 From the general standards identified in Section 301 of this rule, delete 40 CFR 61.04.

303.2 When the Administrator adopts and makes effective emission standards pursuant to Section 112(d) or 112(f) of the Act, the Control Officer may enforce those standards as prescribed by the Administrator.

303.3 Where the Act has established provisions, including specific schedules, for the regulation of source categories pursuant to Section 112(e)(5) and 112(n) of the Act, the Control Officer may enforce those provisions.

303.4 For any category or subcategory of sources licensed by the U.S. Nuclear Regulatory Commission, the Board of Supervisors shall not adopt and the Control Officer shall not enforce any standard or limitation respecting emissions of radionuclides which is more stringent than the standard or limitation adopted by the Administrator pursuant to Section 112 of the Act.

303.5 If the Administrator finds by rule that regulation is not appropriate or necessary or that alternative control strategies should be applied, the Control Officer shall administer and enforce this rule based on the Administrator's findings.

SECTION 400 - ADMINISTRATIVE REQUIREMENTS

401 CONTROL TECHNOLOGY DETERMINATIONS FOR MAJOR SOURCES IN ACCORDANCE WITH CLEAN AIR ACT SECTIONS, SECTIONS 112(g) AND 112(j): 40 CFR 63.50-56 are adopted by reference.

402 COMPLIANCE EXTENSIONS FOR EARLY REDUCTION OF FEDERALLY LISTED HAZARDOUS AIR POLLUTANTS: 40 CFR 63.70-81 and Table I are adopted by reference.

TABLE I

FEDERAL LIST OF HAZARDOUS AIR POLLUTANTS

A. All of the following are federally listed hazardous air pollutants:

CAS No.	Chemical Name
75070	Acetaldehyde
60355	Acetamide
75058	Acetonitrile
98862	Acetophenone
53963	2-Acetylaminofluorene
107028	Acrolein
79061	Acrylamide
79107	Acrylic acid
107131	Acrylonitrile
107051	Allyl chloride
92671	4-Aminobiphenyl
62533	Aniline
90040	o-Anisidine
1332214	Asbestos
71432	Benzene (including benzene from gasoline)
92875	Benzidine
98077	Benzotrichloride
100447	Benzyl chloride
92524	Biphenyl
117817	Bis(2-ethylhexyl)phthalate (DEHP)
542881	Bis(chloromethyl)ether
75252	Bromoform
106990	1,3-Butadiene
156627	Calcium cyanamide
105602	Caprolactam
133062	Captan
63252	Carbaryl
75150	Carbon disulfide
56235	Carbon tetrachloride
463581	Carbonyl sulfide
120809	Catechol
133904	Chloramben
57749	Chlordane
7782505	Chlorine
79118	Chloroacetic acid
532274	2-Chloroacetophenone
108907	Chlorobenzene
510156	Chlorobenzilate
67663	Chloroform
107302	Chloromethyl methyl ether
126998	Chloroprene
1319773	Cresols/Cresylic acid (isomers and mixture)
95487	o-Cresol
108394	m-Cresol
106445	p-Cresol
98828	Cumene
94757	2,4-D, salts and esters
3547044	DDE
334883	Diazomethane
132649	Dibenzofurans
96128	1,2-Dibromo-3-chloropropane
84742	Dibutylphthalate
106467	1,4-Dichlorobenzene(p)
91941	3,3-Dichlorobenzidene
111444	Dichloroethyl ether (Bis(2-chloroethyl)ether)
542756	1,3-Dichloropropene
62737	Dichlorvos
111422	Diethanolamine
121697	N,N-Diethyl aniline (N,N-Dimethylaniline)
64675	Diethyl sulfate
119904	3,3-Dimethoxybenzidine
60117	Dimethyl aminoazobenzene
119937	3,3-Dimethyl benzidine
79447	Dimethyl carbamoyl chloride
68122	Dimethyl formamide
57147	1,1-Dimethyl hydrazine
131113	Dimethyl phthalate
77781	Dimethyl sulfate
534521	4,6-Dinitro-o-cresol, and salts
51285	2,4-Dinitrophenol
121142	2,4-Dinitrotoluene
123911	1,4-Dioxane (1,4-Diethyleneoxide)
122667	1,2-Diphenylhydrazine
106898	Epichlorohydrin (1-Chloro-2,3-epoxypropane)
106887	1,2-Epoxybutane
140885	Ethyl acrylate
100414	Ethyl benzene

CAS No.	Chemical Name
51796	Ethyl carbamate (Urethane)
75003	Ethyl chloride (Chloroethane)
106934	Ethylene dibromide (Dibromoethane)
107062	Ethylene dichloride (1,2-Dichloroethane)
107211	Ethylene glycol
151564	Ethylene imine (Aziridine)
75218	Ethylene oxide
96457	Ethylene thiourea
75343	Ethylidene dichloride (1,1-Dichloroethane)
50000	Formaldehyde
76448	Heptachlor
118741	Hexachlorobenzene
87683	Hexachlorobutadiene
77474	Hexachlorocyclopentadiene
67721	Hexachloroethane
822060	Hexamethylene-1,6-diisocyanate
680319	Hexamethylphosphoramide
110543	Hexane
302012	Hydrazine
7647010	Hydrochloric acid
7664393	Hydrogen fluoride (Hydrofluoric acid)
123319	Hydroquinone
78591	Isophorone
58899	Lindane (all isomers)
108316	Maleic anhydride
67561	Methanol
72435	Methoxychlor
74839	Methyl bromide (Bromomethane)
74873	Methyl chloride (Chloro-methane)
71556	Methyl chloroform (1,1,1-Trichloroethane)
78933	Methyl ethyl ketone (2-Butanone)
60344	Methyl hydrazine
74884	Methyl iodide (Iodomethane)
108101	Methyl isobutyl ketone (Hexone)
624839	Methyl isocyanate
80626	Methyl methacrylate
1634044	Methyl tert butyl ether
101144	4,4-Methylene bis(2-chloroaniline)
75092	Methylene chloride (Dichloromethane)
101688	Methylene diphenyl diisocyanate (MDI)
101779	4,4-Methylenedianiline
91203	Naphthalene
98953	Nitrobenzene
92933	4-Nitrobiphenyl
100027	4-Nitrophenol
79469	2-Nitropropane
684935	N-Nitroso-N-methylurea
62759	N-Nitrosodimethylamine
59892	N-Nitrosomorpholine
56382	Parathion
82688	Pentachloronitrobenzene (Quintobenzene)
87865	Pentachlorophenol
108952	Phenol
106503	p-Phenylenediamine
75445	Phosgene
7803512	Phosphine
7723140	Phosphorus
85449	Phthalic anhydride
1336363	Polychlorinated biphenyls (Aroclors)
1120714	1,3-Propane sultone
57578	beta-Propiolactone
123386	Propionaldehyde
114261	Propoxur (Baygon)
78875	Propylene dichloride (1,2-Dichloropropane)
75569	Propylene oxide
75558	1,2-Propylenimine(2-Methyl aziridine)
91225	Quinoline
106514	Quinone
100425	Styrene
96093	Styrene oxide
1746016	2,3,7,8-Tetrachloro-dibenzo-p-dioxin
79345	1,1,2,2-Tetrachloroethane
127184	Tetrachloroethylene (Perchloroethylene)
7550450	Titanium tetrachloride
108883	Toluene
95807	2,4-Toluene diamine

CAS No.	Chemical Name
584849	2,4-Toluene diisocyanate
95534	o-Toluidine
8001352	Toxaphene (chlorinated camphene)
120821	1,2,4-Trichlorobenzene
79005	1,1,2-Trichloroethane
79016	Trichloroethylene
95954	2,4,5-Trichlorophenol
88062	2,4,6-Trichlorophenol
121448	Triethylamine
1582098	Trifluralin
540841	2,2,4-Trimethylpentane
108054	Vinyl acetate
593602	Vinyl bromide
75014	Vinyl chloride
75354	Vinylidene chloride (1,1-Dichloroethylene)
1330207	Xylenes (isomers and mixture)
95476	o-Xylenes
108383	m-Xylenes
106423	p-Xylenes
0	Antimony Compounds
0	Arsenic Compounds (inorganic including arsine)
0	Beryllium Compounds
0	Cadmium Compounds
0	Chromium Compounds
0	Cobalt Compounds
0	Coke Oven Emissions
0	Cyanide Compounds[1]
0	Glycol ethers[2]
0	Lead Compounds
0	Manganese Compounds
0	Mercury Compounds
0	Fine mineral fibers[3]
0	Nickel Compounds
0	Polycyclic Organic Matter[4]
0	Radionuclides (including radon)[5]
0	Selenium Compounds

B. The following applies for all listings above which contain the word "compounds" or are glycol ethers: unless otherwise specified, these listings are defined as including any unique chemical substance that contains the named chemical (i.e., antimony, arsenic, etc.) as part of that chemical's infrastructure.

[1] X'CN where X = H' or any other group where a formal dissociation may occur (e.g. KCN or $Ca(CN)_2$).

[2] Includes mono- and di- ethers of ethylene glycol, diethylene glycol, and triethylene glycol $R\text{-}(OCH_2CH_2)_n\text{-}OR'$ where:

n = 1, 2, or 3;

R = alkyl or aryl groups;

R' = R, H, or groups which, when removed, yield glycol ethers with the structure: $R\text{-}(OCH_2CH)_n\text{-}OH$. Polymers are excluded from the glycol category.

[3] Includes mineral fiber emissions from facilities manufacturing or processing glass, rock, or slag fibers (or other mineral derived fibers) of average diameter one micrometer or less.

[4] Includes organic compounds which have more than one benzene ring and which have a boiling point greater than or equal to 212ºF (100ºC). (Limited to, or refers to, products from incomplete combustion of organic compounds and pyrolysis processes.)

[5] A type of atom which spontaneously undergoes radioactive decay.

BLANK PAGE